MPE Calculator			based on TX power add	ed to the antenna gain ir	n dBi.	
	_	ompared to an isotropic	radiator.			
	S = power dense	ty in mW/cm^2				
					0 1 (ID)	2
		0 · · · P			na Gain (dBi)	3
	0.100	Output Power	4.0000	dBd + 2.17 = dBi		2.1
Tx Frequency (MHz)	9400	Average (Watts)	4.0000	Antenn	a Gain (dBd)	27.8
Cable Loss (dB)	0.0	(dBm)	36.02	Antenna minu	s cable (dBi)	30.0
Lable Loss (db)	0.0	(ubiii)	50.02	Antenna minu	s cable (ubi)	50.0
Calc	ulated ERP (mw)	2426945 318		EIRP = Po(dBM)	+ Gain (dB)	
Calculated EIRP (mw)					(EIRP) dBm	66.02
	()				P - 2.17 dB	
Oc	cupational Limit	Power density (S)			l (ERP) dBm	63.85
5.0000		EIRP				
210000	• ш ₩/сш	= mW/cm^2				
Gene	eral Public Limit	4 p r^2				
1.0000		r (cm) EIRP (mW)				
1.0000	o mw/cm					
		ECC radio frem	ency radiation exposure lit	nits per 1 1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		1,500-10,000		1		
		FCC radio frequ	ency radiation exposure lit	mits per 1.1310		
			Occupational Limit @	Public Limit @ Tx		
		Frequency (MHz)	Tx Freq (mW/cm^2)	Freq (mW/cm^2)		
		300-1,500	31.33333333	6.266666667		
		1,500-10,000	5	1		
		EIRP	Distance	Distance	S	Distance
		milliwatts	cm	inches	mW/cm ²	Feet
		400000.000	1000.00	393.70	0.31831	32.81
		400000.000	900.00	354.33	0.39298	29.53
		400000.000	800.00	314.96	0.49736	26.25
		400000.000	700.00	275.59	0.64961	22.97
		400000.000	600.00	236.22	0.88419	19.69
		400000.000	550.00	216.54	1.05226	18.04
		400000.000	500.00	196.85	1.27324	16.40
		400000.000	400.00	157.48	1.98944	13.12
		400000.000	300.00	118.11	3.53678	9.84
		400000.000	290.00	114.17	3.78490	9.51
		400000.000	280.00	110.24	4.06008	9.19
		400000.000	270.00	106.30	4.36639	8.86
		400000.000	260.00	102.36	4.70873	8.53
		400000.000	250.00	98.43	5.09296	8.20
		4000000.000	240.00	94.49	5.52621	7.87
		Frequency (MHz)	Occupational Limit minimum Distance (feet)	Public Limit minimum distance (feet)		
		300-1,500	N/A	N/A		
		1,500-10,000	8.20	18.00		

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Garmin International, Inc. Model: GMR40X xHD Test #:101004 Test to: FCC Parts 2 and 80, RSS-138 File: RFExp GMR40X xHD SN: 21W000005 FCC ID#: IPH-GMR4XXHD IC: 1792A-GMR4XXHD Date: October 16, 2010 Page 1 of 1